

Title (en)

GRAPHITE SUBSTRATES FOR REFLECTIVE OPTICS

Title (de)

GRAPHITSUBSTRATE FÜR REFLEKTIERENDE OPTIK

Title (fr)

SUBSTRATS EN GRAPHITE POUR DES ÉLÉMENTS OPTIQUES RÉFLÉCHISSANTS

Publication

EP 3430446 A2 20190123 (EN)

Application

EP 17714348 A 20170316

Priority

- US 201662310192 P 20160318
- US 2017022657 W 20170316

Abstract (en)

[origin: WO2017161087A2] An optical element based on a graphite substrate is provided. The optical element may be a reflective element and may include a finishing layer, adhesion layer, and/or galvanic compatibility layer. Finishing layers include Ni and Si and provide a surface that can be processed to a low finish to support a reflective layer or reflective stack. Graphite substrates are light weight, are amenable to diamond turning and can be machined to near net shape, have low coefficients of thermal expansion to enable operation over wide temperature ranges, and have high chemical stability.

IPC 8 full level

G02B 1/00 (2006.01); **G02B 1/02** (2006.01); **G02B 5/08** (2006.01)

CPC (source: EP US)

G02B 1/02 (2013.01 - EP US); **G02B 1/04** (2013.01 - US); **G02B 1/14** (2015.01 - US); **G02B 5/08** (2013.01 - EP US); **G02B 5/0808** (2013.01 - US)

Citation (search report)

See references of WO 2017161087A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2017161087 A2 20170921; **WO 2017161087 A3 20171026**; EP 3430446 A2 20190123; JP 2019510273 A 20190411; US 2017269265 A1 20170921

DOCDB simple family (application)

US 2017022657 W 20170316; EP 17714348 A 20170316; JP 2018548756 A 20170316; US 201715450544 A 20170306